JUL 1.7 2008

Form 1449 (Modified)

Information Disclosure Statement By Applicant

(Use Several Sheets if Necessary)

Atty Docket No.

NSC1P300/P05882

No. Application No.: 10/824,903

Applicant: Kelkar

Filing Date 04/14/2004

Group 2891

U.S. Patent Documents

No.		I				Filing
	Patent No.	Date	Patentee	Class	class	Date
A1	2005-0516331		Akram			03/10/05
	<u> </u>			Λ		05/20/03
						04/28/05
A4			Tao et al.			01/28/03
A5						05/20/02
A6						01/15/03
A7			Smith et al.			01/29/03
A8			Alvarez			12/10/02
A9			Buchwalter et al.			02/13/01
A10			Fang			12/24/02
A11		05/08/03	Sterrett et al.			11/08/01
A12		05/01/03	Lee et al.			10/28/02
A13	2002-0031868	03/14/02	Capote			09/07/01
A14			Capote et al.			08/20/01
A15			Shibata	1		07/11/02
A16			Nakamura et al.			03/11/98
A17	2004-0002181	01/01/04	Scheifers et al.	1.		04/02/03
A18	2003-0001283	01/02/03	Kumamoto			06/29/01
A19	5,088,189	04/16/91	Oroskar et al.			06/20/89
A20	5,128,746	07/07/92	Pennisi et al.			09/27/99
A21	5,329,423	07/12/94	Scholz			04/13/93
A22	5,736,456	04/07/98	Akram			07/17/96
A23	5,767,010	06/16/98	Mis, et al.			11/05/96
A24	5,773,359	06/30/98	Mitchell, et al.			12/26/95
A25	5,937,320	08/10/95	Andricacos, et al.	1		04/08/98
A26	5,977,632	11/02/99	Beddingfield			02/02/98
A27	6,327,158	12/04/01	Kelkar			01/15/99
A28	5,136,365	08/04/92	Pennisi et al.	† †		09/27/99
A29	5,214,308	05/25/93	Nishiguchi et al.		1	01/23/91
A30	5,244,143	09/14/93	Ference et al.	1		04/16/92
A31	5,250,843	10/05/93	Eichelberger	1	1	09/08/92
A32	5,329,423	07/12/94	Scholz	1	—	04/13/93
	5,376,403	12/27/97	Capote et al.		- <i>\</i>	10/01/91
	A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23 A24 A25 A26 A27 A28 A29 A30 A31 A32 A33	A22003-0218258A32005-0212142A42003-0193096A52002-0171152A62003-0169064A72003-0129789A82003-0127502A92002-0109228A102003-0087475A112003-0087475A122003-0080360A132002-0014703A152003-0013233A162002-0003299A172004-0002181A182003-001283A195,088,189A205,128,746A215,329,423A225,736,456A235,767,010A245,773,359A255,937,320A265,977,632A276,327,158A285,136,365A295,214,308A305,244,143A315,250,843A325,329,423	A2 2003-0218258 11/27/03 A3 2005-0212142 09/29/05 A4 2003-0193096 10/16/03 A5 2002-0171152 11/21/02 A6 2003-0169064 09/11/03 A7 2003-0129789 07/10/03 A8 2003-0127502 07/10/03 A9 2002-0109228 08/15/02 A10 2003-0099767 05/29/03 A11 2003-0087475 05/08/03 A12 2003-0080360 05/01/03 A13 2002-0031868 03/14/02 A14 2002-0014703 02/07/02 A15 2003-0013233 01/16/03 A16 2002-003299 01/10/02 A17 2004-0002181 01/01/04 A18 2003-001283 01/02/03 A19 5,088,189 04/16/91 A20 5,128,746 07/07/92 A21 5,329,423 07/12/94 A22 5,736,456 04/07/98 A23 5,767,010 06/16/98 A24 5,773,359 06/30/98 A25 5,937,320 08/10/95 A26 5,977,632 11/02/99 A27 6,327,158 12/04/01 A28 5,136,365 08/04/92 A29 5,214,308 05/25/93 A30 5,244,143 09/14/93 A31 5,250,843 10/05/93 A32 5,329,423 07/12/94 A33 5,376,403 12/27/97	A2 2003-0218258 11/27/03 Charles et al. A3 2005-0212142 09/29/05 Miyazaki et al. A4 2003-0193096 10/16/03 Tao et al. A5 2002-0171152 11/21/02 Miyazaki A6 2003-0169064 09/11/03 Pirkle et al. A7 2003-0129789 07/10/03 Smith et al. A8 2003-0127502 07/10/03 Alvarez A9 2002-0109228 08/15/02 Buchwalter et al. A10 2003-0099767 05/29/03 Fang A11 2003-0087475 05/08/03 Sterrett et al. A12 2003-0080360 05/01/03 Lee et al. A13 2002-0014703 02/07/02 Capote A14 2002-0014703 02/07/02 Capote et al. A15 2003-0013233 01/16/03 Shibata A16 2002-0003299 01/10/02 Nakamura et al. A17 2004-0002181 01/01/04 Scheifers et al. A18 2003-0001283 01/02/03 Kumamoto A19 5,088,189 04/16/91 Oroskar et al. A20 5,128,746 07/07/92 Pennisi et al. A21 5,329,423 07/12/94 Scholz A22 5,736,456 04/07/98 Akram A23 5,767,010 06/16/98 Mis, et al. A24 5,773,359 06/30/98 Mitchell, et al. A25 5,937,320 08/10/95 Andricacos, et al. A26 5,977,632 11/02/99 Beddingfield A27 6,327,158 12/04/01 Kelkar A28 5,136,365 08/04/92 Pennisi et al. A29 5,214,308 05/25/93 Nishiguchi et al. A30 5,244,143 09/14/93 Ference et al. A31 5,250,843 10/05/93 Eichelberger A32 5,329,423 07/12/94 Scholz A31 5,250,843 10/05/93 Eichelberger A32 5,329,423 07/12/94 Scholz	A2 2003-0218258 11/27/03 Charles et al. A3 2005-0212142 09/29/05 Miyazaki et al. A4 2003-0193096 10/16/03 Tao et al. A5 2002-0171152 11/21/02 Miyazaki A6 2003-0169064 09/11/03 Pirkle et al. A7 2003-0129789 07/10/03 Smith et al. A8 2003-0127502 07/10/03 Alvarez A9 2002-0109228 08/15/02 Buchwalter et al. A10 2003-0099767 05/29/03 Fang A11 2003-0087475 05/08/03 Sterrett et al. A12 2003-0080360 05/01/03 Lee et al. A13 2002-0031868 03/14/02 Capote A14 2002-0014703 02/07/02 Capote et al. A15 2003-0013233 01/16/03 Shibata A16 2002-0003299 01/10/02 Nakamura et al. A17 2004-0002181 01/01/04 Scheifers et al. A18 2003-0001283 01/02/03 Kurnamoto A19 5,088,189 04/16/91 Oroskar et al. A20 5,128,746 07/07/92 Pennisi et al. A21 5,329,423 07/12/94 Scholz A22 5,736,456 04/07/98 Akram A23 5,767,010 06/16/98 Mis, et al. A24 5,773,359 06/30/98 Mitchell, et al. A25 5,937,320 08/10/95 Andricacos, et al. A26 5,977,632 11/02/99 Beddingfield A27 6,327,158 12/04/01 Kelkar A28 5,136,365 08/04/92 Pennisi et al. A30 5,244,143 09/14/93 Ference et al. A31 5,250,843 10/05/93 Eichelberger A32 5,329,423 07/12/94 Scholz A31 5,250,843 10/05/93 Eichelberger A32 5,329,423 07/12/94 Scholz A33 5,376,403 12/27/97 Capote et al.	A2 2003-0218258 11/27/03 Charles et al. A3 2005-0212142 09/29/05 Miyazaki et al. A4 2003-0193096 10/16/03 Tao et al. A5 2002-0171152 11/21/02 Miyazaki A6 2003-0169064 09/11/03 Pirkle et al. A7 2003-0129789 07/10/03 Smith et al. A8 2003-0127502 07/10/03 Alvarez A9 2002-0109228 08/15/02 Buchwalter et al. A10 2003-0099767 05/29/03 Fang A11 2003-0087475 05/08/03 Sterrett et al. A12 2003-0080360 05/01/03 Lee et al. A13 2002-0031868 03/14/02 Capote A14 2002-0014703 02/07/02 Capote et al. A15 2003-0013233 01/16/03 Shibata A16 2002-0003299 01/10/02 Nakamura et al. A17 2004-0002181 01/01/04 Scheifers et al. A18 2003-001283 01/02/03 Kumamoto A19 5,088,189 04/16/91 Oroskar et al. A20 5,128,746 07/07/92 Pennisi et al. A20 5,128,746 07/07/92 Pennisi et al. A21 5,329,423 07/12/94 Scholz A22 5,736,456 04/07/98 Akram A23 5,767,010 06/16/98 Mis, et al. A24 5,773,359 06/30/98 Mitchell, et al. A25 5,937,320 08/10/95 Andricacos, et al. A26 5,977,632 11/02/99 Beddingfield A27 6,327,158 12/04/01 Kelkar A28 5,136,365 08/04/92 Pennisi et al. A29 5,214,308 05/25/93 Nishiguchi et al. A30 5,244,143 09/14/93 Ference et al. A31 5,250,843 10/05/93 Eichelberger A32 5,329,423 07/12/94 Scholz A33 5,376,403 12/27/97 Capote et al.

Atty Docket No. Application No.:

NSC1P300/P05882 10/824,903

Applicant:

Statement By Applicant

Kelkar

Filing Date

Group

04/14/2004

2891

U.S. Patent Documents

(Use Several Sheets if Necessary)

Examiner				it Documents	T	Sub-	Filing
<u>Initial</u>	No.	Patent No.	Date	Patentee	Class	class	Date
DAZ	A34	5,495,439	02/27/96	Morihara			09/07/94
	A35	5,500,534	03/19/96	Robinson et al.	1		03/31/94
	A36	5,587,342	12/24/96	Lin et al.	1		04/03/95
	A37	5,668,059	09/16/97	Christie et al.	T		07/12/96
	A38	5,698,894	12/16/97	Bryant et al.			10/28/96
	A39	5,736,456	04/07/98	Akram			07/17/96
	A40	5,767,010	06/16/98	Mis et al.			11/05/96
	A41	5,768,290	01/16/98	Akamatsu			04/01/97
	A42	5,773,359	06/30/98	Mitchell et al.			12/26/95
	A43	5,872,633	02/16/99	Holzapfel et al.			02/12/97
	A44	5,880,530	03/09/99	Mashimoto et al.			03/29/96
	A45	5,895,976	04/20/99	Morrell et al.		_	06/03/96
	A46	5,925,936	07/20/99	Yamaji			02/26/97
	A47	5,937,320	08/10/99	Andricacos et al.	1		04/08/98
	A48	5,953,623	09/14/99	Boyko et al.			04/10/97
	A49	5,977,632	11/02/99	Beddingfield			02/02/98
	A50	6,023,094	02/ /00	Kao et al.		1	01/14/98
	A51	6,060,373	05/09/00	Saitoh		1	07/09/99
	A52	6,063,647	05/16/00	Chen et al.		1	12/08/97
	A53	6,071,757	06/06/00	Fogal et al.			10/20/98
	A54	6,100,114	08/08/00	Milkovich et al.			08/10/98
	A55	6,121,689	09/19/00	Capote et al.		1	07/21/98
	A56	6,130,473	10/10/00	Mostafazadeh et al.			04/02/98
	A57	6,171,887	01/09/01	Yamaji			05/04/99
	A58	6,190,940	02/20/01	Defelice et al.			01/21/99
	A59	6,228,678	05/08/01	Gilleo et al.	· · ·		03/10/99
	A60	6,245,595 B1	06/12/01	Nguyen et al.		1	07/22/99
	A61	6,258,626	07/10/01	Wang et al.			07/06/00
	A62	6,288,444	09/11/01	Abe et al.			06/04/99
	A63	6,297,560	10/02/01	Capote et al.			08/21/98
	A64	6,307,269	10/23/01	Akiyama et al.		1	07/10/98
	A65	6,316,528	11/13/01	Iida et al.	1	1	01/16/98
$-\mathbf{V}$	A66	6,327,158 B1	12/04/01	Kelkar et al.	1	1	01/15/99
DAZ	A67	6,346,296	02/12/02	McCarthy et al.			09/14/99
Examiner	/	David Zarneke/		Date Considered	09/22/2	2006	

Form 1449 (Modified)	Atty Docket No. NSC1P300/P05882	Application No.: 10/824,903
Information Disclosure Statement By Applicant	Applicant: Kelkar	·
(Use Several Sheets if Necessary)	Filing Date 04/14/2004	Group 2891

U.S. Patent Documents

Examiner						Sub-	Filing
Initial	No.	Patent No.	Date	Patentee	Class	class	Date
DAZ	A68	6,352,881 B2	03/05/02	Nguyen et al.	1		07/22/9
	A69	6,358,627	03/19/02	Benenati et al.			01/23/0
	A70	6,372,547	04/16/02	Nakamura et al.			03/11/9
	A71	6,391,683	05/21/02	Chiu et al.			06/21/0
	A72	6,429,238	08/06/02	Sumita et al.			06/09/0
	A73	6,455,920	09/24/02	Fukasawa et al.			09/25/9
	A74	6,479,308	11/12/02	Eldridge	1	\	12/27/0
	A75	6,486,562	11/26/02	Kato			06/07/0
	A76	6,507,118	01/14/03	Schueller			07/14/0
	A77	6,605,479	08/12/03	Pasadyn et al.			07/27/0
	A78	6,649,445	11/18/03	Qi et al.			09/11/02
	A79	6,791,194	09/14/04	Nagai et al.			01/28/0
V	A80	6,818,550	11/16/04	Shibata	i	1	07/11/0
DA7	A81	6,822,324	11/23/04	Tao et al.		•	01/28/0
Examiner	Examiner /David Zarneke/			Date Considered	09/22/20	06	

Form 1449 (Modified)	Atty Docket No. NSC1P300/P05882	Application No.: 10/824,903
Information Disclosure Statement By Applicant	Applicant: Kelkar	,
(Use Several Sheets if Necessary)	Filing Date 04/14/2004	Group 2891

Other Documents

		Other Do	Luments			
Examiner						
Initial	No.	Author, Title, Date, Place (e	.g. Journal) of Publication			
C1 Kulicke & "Achieve I		Kulicke & Soffa, Flip Chip Di	vision, Polymer Collar TM Wafer Level Package; y for Wafer Level Packages!", December 7, 2001,			
r	 		D. C. II. TM TV. C. T. I.D. I. (C.			
	C2	Kulicke & Soffa, Flip Chip Division, Polymer Collar TM Wafer Level Package the Polymer Collar TM WLP Difference!", December 7, 2001, www.kns.com.				
	C3	Lau et al., "Chip Scale Package: Design, Materials, Process, Reliability, and Applications," February 28, 1999, McGraw-Hill Professional Publishing; Chapter 1, pages 1-41.				
	C4	Rao R. Tummala, "Fundamentals of Microsystem Packaging," May 8, 2001, McGraw-Hill Professional Publishing; Chapters 2, 10 and 17.				
	C5	"Polymer Collar WLP TM , Wafer Level Package Family", © 2002, downloaded from www.kns.com/prodserv/PDFS/FCD/polymer collar.pdf, 2 pages.				
	C6	"Presenting Polymer Collar WLP TM – A New Wafer Level Package for Improved				
		Solder Joint Reliability", © 2002, downloaded from				
		www.kns.com/prodserv/flipchip/pdf/PC ad.pdf, 1 page.				
	C7	Barrett et al., Kulicke & Soffa, "Polymer Collar WLP TM – A New Wafer Level				
			oint Reliability", © 2002, downloaded from			
		www.kns.com/resources/article				
	C8	Bogatin, Eric, "All Dressed Up and Nowhere to Go"; Semiconductor International, May 1, 2002, downloaded December 23, 2003, from <a ,="" href="https://www.reed-up.edu/www.reedu/www.reed-up.edu/www.reedu</td></tr><tr><td></td><td></td><td></td><td>/index.asp?layout=article@articleid=CA213812@rid=</td></tr><tr><td></td><td></td><td colspan=3><u>0&rme=0&cfd=1</u>, 2 pages.</td></tr><tr><td>•</td><td>C9</td><td colspan=3></td></tr><tr><td colspan=2>DAZ Reliability" semi®="" syr<="" td="" technology=""><td>_ ·</td><td>gy Symposium: International Electronics</td>			_ ·	gy Symposium: International Electronics
		Manufacturing Technology (IE	MT) Symposium, SEMICON® West 2002.			
		Zarneke/	Date Considered 09/22/2006			

Form 1449 (Modified)	Atty Docket No.	Application No.:
	NSC1P300/P05882	10/824,903
Information Disclosure	Applicant:	
Statement By Applicant	Kelkar	
	Filing Date	Group
(Use Several Sheets if Necessary)	04/14/2004	2891

Other Documents

Examiner				
Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication		
DAZ	C10	U.S. Patent Application 10/080,913, filed February 21, 2002.		
V	C11	U.S. Patent Application 10/224,291, filed August 19, 2002.		
DAZ	C12	U.S. Patent Application 10/707,208, filed November 26, 2003.		
Examiner		D	ate Considered	
	DAZ		/David Zarneke/	